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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.				
09/445,289	05/11/2000	GALINA V MUKAMOLOVA	49946-60261	9774				
EDWARDS A	7590 08/20/2007 NGELL PALMER & DO		EXAM	INER				
P.O. BOX 558		DEVI, SARVAN	DEVI, SARVAMANGALA J N					
BOSTON, MA	. 02203		ART UNIT	PAPER NUMBER				
,			1645					
			MAIL DATE	DELIVERY MODE				
			08/20/2007	PAPER				

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.



## UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.
09/445,289	05/11/00	Mukamolova et al.	49946-60261

EXAMINER

S. Devi, Ph.D.

ART UNIT PAPER NUMBER

1645 082007

DATE MAILED:

Please find below a communication from the EXAMINER in charge of this application

The communication filed 08/01/07 is not fully responsive to the Office communication mailed 02/01/07 for the reason(s) set forth on the attached Notice To Comply With The Sequence Rules and/or CRF Diskette Problem Report. Applicant must comply with the requirements of the sequence rules (37 CFR 1.821 - 1.825) before the application can be examined under 35 U.S.C. §§ 131 and 132.

Since the above-mentioned reply appears to be a *bona fide* attempt to comply with the requirements of the sequence rules (37 CFR 1.821 - 1.825), Applicant is given a TIME PERIOD of **ONE (1) MONTH** from the mailing date of this communication within which to correct the deficiency so as to comply with the sequence rules (37 CFR 1.821 - 1.825) in order to avoid abandonment of the application under 37 CFR 1.821(g). EXTENSIONS OF THIS TIME PERIOD MAY BE GRANTED UNDER 37 CFR 1.136(a).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Devi, Ph.D., whose telephone number is (571) 272-0854. A message may be left on the Examiner's voice mail system. The Examiner can normally be reached on Monday-Friday from 7:15 a.m. to 4:15 p.m. (Eastern Time) except one day each bi-week, which would be disclosed on the Examiner's voice mail system.

If attempts to reach the Examiner by telephone are unsuccessful, her supervisor, Jeffrey Siew, can be reached at (571) 272-0787. The FAX phone number for group 1645 is (571) 273-8300.

An inquiry of a general nature or relating to the status of the application should be directed to the group receptionist whose telephone number is (571) 272-1600.

S. DEVI, PH.D.
PRIMARY EXAMINER

August, 2007

# Notice to Comply Application No. O9445289 Mukamalova et al. Examiner Art Unit S.Devi, Ph.D. 1645

### NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

DISCLOSURES									
Applicant must file the items indicated below within the time period set the Office action to which the Notice is attached to avoid abandonment under 35 U.S.C. § 133 (extensions of time may be obtained under the provisions of 37 CFR 1.136(a)).									
The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):									
1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998).									
2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).									
3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).									
4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."									
5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).									
☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).									
7. Other:									
Applicant Must Provide: ☐ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".									
$oxed{\boxtimes}$ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.									
A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).									
For questions regarding compliance to these requirements, please contact:									
For Rules Interpretation, call (703) 308-4216 or (703) 308-2923  For CRF Submission Help, call (703) 308-4212 or 308-2923  PatentIn Software Program Support  Technical Assistance703-287-0200									
To Purchase Patentin Software703-306-2600									

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR REPLY

Sequence Listing could not be accepted due to errors. See attached Validation Report. If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free). Reviewer: Anne Corrigan Timestamp: Tue Aug 14 09:28:38 EDT 2007 Reviewer Comments: <210> 11 <211> 320 <212> PRT <213> Clostridium acetobutylicum <220> <221> MOD\_RES <222> (2)..(3) <223> Variable amino acid <400> 11 Lys Arg Xaa Xaa Ala Val Ile Leu Met Val Ala Val Ile Phe Thr Ile 1 10 15 The above <222> response is incorrect: the Xaa's are at locations 3 and

### Validated By CRFValidator v 1.0.2

Application No:

09445289

Version No:

8.0

Input Set:

### Output Set:

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Finished: 2007-08-13 16:20:30.790

**Elapsed:** 0 hr(s) 0 min(s) 1 sec(s) 797 ms

Total Warnings: 12

Total Errors: 8

No. of SeqIDs Defined: 63

Actual SeqID Count: 63

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      KELL, DOUGLAS B.
      YOUNG, MICHAEL
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55

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1	<b>5</b> Ç.	OL,	9	5		2,5			10	501	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	vui	Ser	15	AIG	
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Arg	С <u>у</u> в 50	Glu	Ser	Gly	Gly	Asn 55	Trp	Ser	Ile	Asn	Thr 60	Gly	Asn	Gly	Tyr	
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Gln	Pro	<b>Ala</b> 355	Asp	Ala	Pro	Pro	9ro 360	Gly	Asp	Val	Thr	Glu 365	Ala	Pro	Ala
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155

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Lys Val Thr Asp Val Val Glu Glu Lys Ile Ala Phe Asp Val Lys Lys \$245\$